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- (51) 国際特許分類: C07C 51/43, 59/06 (74) 代理人: 渡邊 潤三 (WATANABE, Junzo); 〒107-0052 東京都港区赤坂1丁目3番5号 赤坂アビタシオンビル3階 Tokyo (JP).
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— 国際調査報告書
- 2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: PROCESS FOR PRODUCTION OF HIGH-PURITY CRYSTALS OF GLYCOLIC ACID

(54) 発明の名称: 高純度のグリコール酸結晶の製造方法

(57) Abstract: A process for production of high-purity crystals of glycolic acid, characterized by comprising the step (1) of forming an aqueous solution (A) of glycolic acid satisfying the following requirements (a), (b) and (c): (a) the water content is 5 to 20 % by mass, (b) the mass ratio of glycolic acid in terms of monomer [(the mass of monomeric glycolic acid contained in the solution (A) + the mass of glycolic acid monomer constituting the glycolic acid condensates contained in the solution (A))/the mass of the solution (A)] is 0.60 to 1.00, and (c) the monomeric glycolic acid content is 20 to 57 % by mass, the step (2) of precipitating crystals of glycolic acid from the solution (A), and the step (3) of separating the crystals from the solution (A).

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00858

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> C07C51/43, 59/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> C07C51/43, 59/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WPI (DIALOG)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 92/5138 A1 (E.I. DU PONT DE NEMOURS AND CO.), 02 April, 1992 (02.04.92), Claims; examples & EP 552255 A1 & JP 6-501268 A	1-5
Y	JP 9-2998 A (Mitsui Toatsu Chemicals, Inc.), 07 January, 1997 (07.01.97), Par. No. [0023] (Family: none)	1-5
Y	JP 62-77349 A (Denki Kagaku Kogyo Kabushiki Kaisha), 09 April, 1987 (09.04.87), Claims; examples (Family: none)	1-5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 5-92102 A (Idemitsu Petrochemical Co., Ltd.), 16 April, 1993 (16.04.93), Claims (Family: none)	1-5
A	JP 8-268955 A (Hoechst AG.), 15 October, 1996 (15.10.96), Claims; Par. No. [0003] & EP 733616 A1	1-5